Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently amended) An isolated RNA comprising an <u>artificial</u> intron RNA that is released in a cell, thereby <u>modulating silencing</u> the function of a target gene.
- 2. (Currently amended) The isolated RNA of claim 1, wherein the isolated artificial intron RNA contains a splice donor site that includes—5'-GUA(A/-)GAG(G/U)-3', a splice acceptor site that includes—5'-G(A/U/-)(U/G)(C/G)C(U/C)(G/A)CAG-3' (SEQ-ID-NO: 1), a branch site that includes 5'-UACU(A/U)A(C/U)(-/C)-3', and a poly-pyrimidine tract that includes 5'-(U(C/U))1-3(C/-)U7-12C(C/-)-3' (SEQ-ID-NO: 2), or a combination thereof.
- 3. (Currently amended) The isolated RNA of claim [[2]] 1, wherein the cell is a mammalian cell.
- 4. (Currently amended) The isolated artificial intron RNA of claim 2, wherein the splice donor site contains 5'-AGGUAAGU-3'.
- 5. (Currently amended) The isolated artificial intron RNA of claim 2, wherein the splice acceptor site contains 5'-CCACAGC-3'.
- 6. (Currently amended) The isolated artificial intron RNA of claim 2, wherein the branch site contains 5'-UACUAAC-3.

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7. (Currently amended) An isolated RNA comprising an <u>artificial</u> intron RNA that is released in a <u>mammalian eukaryotic</u> cell, thereby <u>modulating silencing</u> the function of a target gene.

8. (Currently amended) An isolated RNA comprising an <u>artificial</u> intron RNA that is released in a <u>mammalian eukaryotic</u> cell, thereby <u>modulating silencing</u> the function of a target gene, wherein the <u>isolated artificial intron</u> RNA contains a splice donor site that includes 5'-GUA(A/-)GAG(G/U)-3' 5'-AGGUAAGU-3', a splice acceptor site that includes 5'-G(A/U/-)(U/G)(C/G)C(U/C)(G/A)CAG-3' (SEQ ID NO: 1) 5'-CCACAGC-3', a branch site that includes 5'-UACU(A/U)A(C/U)(-/C) 3' 5'-UACUAAC-3', a poly-pyrimidine tract that includes 5' (U(C/U))₁₋₃(C/-)U₇₋₁₂C(C/-)-3' (SEQ-ID-NO: 2) 5'-UUCUUUUUUUUU-3', or a combination thereof.

9-10. (Canceled)

11. (Original) A cultivated cell comprising the isolated RNA of claim 1.

12-18. (Canceled)

19. (Original) A composition comprising the isolated RNA of claim 1.

20-57. (Canceled)